

Title (en)
METHOD AND DEVICE FOR FORCIBLY INSERTING DROP INTO COMPRESSION MOLDING MACHINE, AND MOLDING DIE FOLLOW-UP
TYPE METHOD AND DEVICE FOR SUPPLYING DROP

Title (de)
VERFAHREN UND VORRICHTUNG ZUM ZWANGSWEISEN EINFÜHREN VON KLUMPEN IN FORMPRESSMASCHINEN UND
FORMWERKZEUGDURCHLAUFVERFAHREN SOWIE VORRICHTUNG ZUR KLUMPENZUFÜHRUNG

Title (fr)
PROCEDE ET DISPOSITIF POUR INSERER DE FORCE UNE GOUTTE DANS UNE MACHINE DE MOULAGE PAR COMPRESSION ET
PROCEDE ET DISPOSITIF DE TYPE A ALIMENTATION EN GOUTTES AVEC SUIVI DU DEPLACEMENT DE MATRICE DE MOULAGE

Publication
EP 1652645 A4 20060726 (EN)

Application
EP 04747727 A 20040713

Priority
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Abstract (en)
[origin: EP1652645A1] When compression molding is performed continuously, lumps of molten synthetic resin (drops), which are supplied by extrusion, are continuously, accurately, and rapidly inserted into plurality of compression molding dies which are rotatably movable. A method and device for continuously supplying drops into female moldings which are rotatably movable for manufacturing moldings, wherein synthetic resin in molten condition extruded from an extrusion opening is cut by a cutter attached to a holding mechanism to form the molten resin into drops in a determined quantity, the drops are held and conveyed by the holding mechanism, and the drops are forcibly inserted and supplied into the concaves of the female moldings. At that time the holding mechanism on the rotary-and movable type drop supply is made to approach the rotating molding die and the rotation path of the holding mechanism is made to overlap with that of the molding die within a determined area to make the movement of the holding mechanisms follow that of the molding die.

IPC 8 full level
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B29C 2043/3494 (2013.01 - EP US)

Citation (search report)
• [PX] WO 2004039553 A1 20040513 - SACMI [IT], et al
• [X] US 5811044 A 19980922 - ROTE B JACK [US], et al
• [A] WO 03047831 A1 20030612 - SIPA PROGETTAZIONE AUTOMAZ [IT], et al
• [A] EP 1293332 A2 20030319 - SACMI [IT]
• [PX] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)
• See references of WO 2005007378A1

Cited by
ITMO20090014A1; US2009014915A1; EP2263848A4; US8016583B2; WO2010084470A2; US8168100B2; WO2008017915A3;
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KR 101176444 B1 20120830; KR 20060113633 A 20061102; US 2007007694 A1 20070111; US 2013181368 A1 20130718;
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US 56444504 A 20040713